

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A bone screw $[(1)]$ having a longitudinal axis $[(2)]$ comprising:
 - a threaded shaft $[(15)]$, which comprises an external thread $[(3)]$ with an external diameter D_A , a front threaded end $[(4)]$ and a thread profile $[(11)]$, wherein the thread profile $[(11)]$ has a front threaded flank $[(7)]$ which is directed towards the front threaded end $[(4)]$, and a rear threaded flank $[(18)]$;
 - a front end $[(4)]$; and
 - a rear end $[(18)]$, the rear end $[(18)]$ able to accommodate a tool,wherein the external thread $[(3)]$ at the front end $[(4)]$ of the thread comprises a flank piece $[(9)]$, which is angled with respect to threaded flanks $[(7, 18)]$, so that a tangential cutting edge $[(5)]$ is formed thereby at the front end $[(4)]$ of the thread.
2. (Currently Amended) A bone screw according to claim 1, wherein flank piece $[(9)]$ encloses an angle α of between about 40° and about 110° with the longitudinal axis $[(2)]$.
3. (Original) A bone screw according to claim 2, wherein the angle α is between about 85° and about 95° , and more preferably between about 88° and about 91° .
4. (Currently Amended) A bone screw according to ~~claims 1 to 3~~ claim 1, wherein the threaded profile $[(11)]$ has a constant profile height H.
5. (Currently Amended) A bone screw according to ~~claims 1 to 4~~ claim 1, wherein the external thread $[(3)]$ is configured as a multiple thread, preferably as a double thread.
6. (Currently Amended) A bone screw according to ~~claims 1 to 5~~ claim 1, wherein the external thread $[(3)]$ has a thread pitch x of between about 1 mm and about 7 mm, and preferably of between about 1.5 mm and about 4.0 mm.

7. (Currently Amended) A bone screw according to claim 6, wherein the external thread $[(3)]$ has n threads and a thread pitch $X = nx$.

8. (Currently Amended) A bone screw according to ~~claims 1 to 7~~ claim 1, wherein the external diameter D_A of the external thread $[(3)]$ is between about 7 and about 14 mm and preferably between about 10 mm and about 14 mm.

9. (Currently Amended) A bone screw according to ~~claims 1 to 8~~ claim 1, wherein the height H of the thread profile is between about 0.5 mm and about 5.0 mm, and more preferably between about 2.5 mm and about 4.5 mm.

10. (Currently Amended) (Currently Amended) A bone screw according to ~~claims 1 to 9~~ claim 1, wherein the thread profile $[(11)]$ has a flank angle β between about 5° and about 160° , and more preferably between about 60° and about 90° .

11. (Currently Amended) A bone screw according to ~~claims 1 to 10~~ claim 1, wherein the thread profile $[(11)]$ has a variable flank angle β in a cross-sectional area parallel to the longitudinal axis of the bone screw $[(1)]$.

12. (Currently Amended) ~~A device with a bone screw according to claims 1 to 11,~~
comprising An assembly comprising:

a bone screw having a front end and a rear end forming a longitudinal axis,
wherein the bone screw further includes a threaded shaft, which comprises an external thread
with an external diameter D_A , a front threaded end and a thread profile, wherein the thread
profile has a front threaded flank which is directed towards the front threaded end, and a rear
threaded flank;

a tubular bone blade $[(21)]$ with a central borehole which is coaxial with the longitudinal axis $[(2)]$ of the bone screw $[(1)]$,

wherein the front end $[(8)]$ of the bone screw $[(1)]$ protrudes coaxially beyond the tubular bone blade $[(21)]$ and the bone screw $[(1)]$ being rotatable about the longitudinal axis in the central borehole, and

wherein the external thread of the bone screw at the front end of the thread comprises a flank piece, which is angled with respect to threaded flanks, so that a tangential cutting edge is formed thereby at the front end of the thread.